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and advance knowledge of infrastructure development plans)
without compensation, or with inadequate compensation, from
the regulated entity to the unregulated entity.

40. It is no answer to argue, as have several of BellSouth's witnesses, that AT&T, MCI, Sprint, and WorldCom are large and sophisticated companies, eminently capable of detecting misconduct of this kind. Ability to sense the existence of cross-subsidies, cost shifting or degradation of service provides no solace to a competitor that cannot prove or stop the anticompetitive conduct. Suppliers of long-distance service have no ability to vote with their feet if BellSouth gains a reputation for misconduct. They are utterly dependent on the BOCs to originate and terminate virtually all of their calls. Furthermore, the complexity and judgmental nature of the relevant costs -- and a BOC's control of its own cost records -- make regulatory relief time-consuming, costly and uncertain.

41. The vertical competitive issues raised by AT&T's recent acquisition of McCaw provide an instructive contrast. The analog for local exchange service in the AT&T/McCaw context was the market for equipment used by providers of cellular service: AT&T sold the same kind of cellular equipment to independent cellular carriers that AT&T could provide to McCaw, their competitor. The critical difference was the competitiveness of the market for cellular equipment: if AT&T began to gain a reputation for discrimination, overpricing its cellular equipment, degrading equipment provided to rivals of McCaw, or

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attempting vertical price squeezes, independent cellular companies had the option of shifting to competing equipment suppliers. It is also unrealistic to expect that AT&T could have exploited an independent cellular carrier after it made a sunk investment in AT&T-specification equipment. If AT&T had been recognized to engage in this kind of ex post opportunism, it would quickly have been shunned by potential customers.

42. Even apart from concerns about discrimination in the pricing of access, serious concerns remain about the danger of discrimination in BellSouth's provision of access services. Discriminatory delay in inauguration of requested service or in the quality of that service can be a substantial disadvantage to rivals, and can be carried out in ways that support at least plausible arguments of legitimacy, making regulatory protection or remedy far from certain. And with the technological complexities and dynamic changes that characterize the telecommunications industry, myriad and subtle possibilities for discriminatory treatment clearly exist.

43. Discriminatory provision of access can take numerous forms. These include outright denial of access; restrictive interconnection policies; provision of inferior or less responsive service; manipulation of product or service specifications, predatory changes in network design, or failure to provide prompt notice of changed product or service specifications (all of which can give an affiliated supplier an insuperable head start over competing equipment vendors or service providers); prohibitions or restrictions against resale

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of services; and refusal to offer facilities for downstream services until the BOC is ready to offer its own, competing service.

44. Finally, BellSouth, if allowed to integrate into interexchange service or manufacturing, could appropriate information about the regulated affiliate's customers, at the expense of competing vendors of interexchange service or equipment.

45. True, full and effective competition would eliminate the attendant dangers, but, as we have seen, such competition is not yet here, and we cannot be sure when, if ever, it will arrive for some critical components of local exchange service.

B. THE LIMITED EFFECTIVENESS OF PRICE CAP REGULATION TO CHANGE THE RBOCs' INCENTIVES

46. BellSouth argues that any opportunities for cross-subsidy have been eliminated by adoption of price cap regulation by the FCC as a substitute for rate-base, rate of return regulation. Once again, there is some basis for this position. Rate-base rate of return regulation is a standing invitation to the regulated firm to undertake cross-subsidy from products sold in markets relatively immune from competition to other company products subject to stronger competitive pressures. It can do so by manipulation of those costs that arise from the supply of products of both types, seeking to misattribute costs actually entailed in the supply of the competitive products to those products in which the firm enjoys market power. The apparent costs of the latter having been increased, the regulated firm can expect to have

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the price ceiling on those products raised correspondingly, thereby gaining a competitive advantage in its more competitive markets at no cost to itself in terms of profits foregone. Price cap regulation is designed to eliminate this prime avenue for cross-subsidy by the regulated firm. It does so by making price ceilings dependent on developments beyond the control of the firm -- on data such as the consumer price index, or the historical rate of productivity growth -- so that anything the regulated firm does to manipulate its cost accounting procedures leaves the regulatory ceilings unaffected.

47. This is all very true in principle, and is true to a degree in practice. In reality, there is good reason to believe that price cap regulation has narrowed the opportunities for cross-subsidy. However, narrowing of those opportunities is not tantamount to their elimination.

48. First, the price cap regime is still far from universal. The FCC's price cap rules do not apply to any intrastate services, although some states have adopted some form of price cap regulation. Moreover, the selection of the necessary prices for unbundled services (including the pricing of access under the terms of the parity principle) itself provides incentives for misallocations.

49. Second, even under the purest rate cap scheme, political realities can be relied upon to prevent the regulator from ignoring rate of return altogether. Whatever vows the regulator may take to avoid interference with the magnitudes of the price caps, such a self-denying ordinance will be breached if the regulated firm actually earns returns patently beyond

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the competitive level, or if, on the other hand, persistently inadequate returns threaten unacceptable deterioration in service quality or even the existence of the firm itself. This means that in practice rate of return considerations can be expected to reenter, as they have in many other countries such as the U.K. and Argentina, by the back door, and bring with them, in attenuated form, precisely the sort of opportunities for cross-subsidy that the regulated firm had before.

50. With the coverage of price cap rules far from universal, with their future far from certain, and with those rules universally supplemented explicitly or implicitly by a rate of return standard, the notion that all opportunities for cross-subsidy have been foreclosed to BellSouth now and forever, and that one can unconcernedly permit entry into the interLATA markets, makes sense only if one is prepared to ignore reality. Freedom of BOC entry into these markets is, indeed, a goal to be worked toward, but only with a complete set of appropriate safeguards in place, and only after effective tests of competitiveness in the pertinent markets have been passed.

IV. CONCLUDING COMMENT

51. In ending, I reaffirm my hope that market forces will soon bring competition to much and perhaps all of the industry's local activities. However, this is a process that is only in its beginnings, and there is no way of foreseeing how far it will go.

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52. In previous writings as well as here I express the hope that it will ultimately become appropriate from the viewpoint of the social interest to permit the BOCs to enter arenas from which they are currently excluded, and that this will happen without unnecessary delay. But before that can occur either the local exchanges will have to have become fully and demonstrably competitive, something which surely has not yet occurred, or it will be necessary to adopt reliable and effective safeguards to remove any incentive for or ability by the BOCs to engage in discrimination in the pricing and provisioning of bottleneck facilities. These safeguards, at a minimum, should require the existence of effective UNE-based competition coupled with a sufficient period to permit the Commission to institute appropriate benchmarks and standards based on actual performance to ensure that such competition, in conjunction with regulation, effectively constrains the BOCs from engaging in anticompetitive conduct. For reasons I have discussed here, neither the current state of competitive entry into access markets nor the currently available safeguards are sufficient to justify BellSouth's entry into interLATA services anywhere in the near future.

I declare under penalty of perjury that the foregoing is true and correct.
Executed on November 14, 1997.



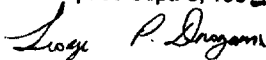
William J. Baumol

Sworn to and subscribed before me

this 14TH day of November, 1997

Notary Public

George F. Drogaris
Notary Public State of N.Y.
No. 43-494 1830
~~Qualified in Richmond County~~
Commission Expires Sept. 6, 1998



ATTACHMENT 1

WILLIAM J. BAUMOL

Curriculum Vitae May 1996

Born February 26, 1922, New York, NY

Married, two children

BSS College of the City of New York, 1942

Ph.D University of London, 1949

1942-1943 and 1946: Junior Economist, U.S. Dept. of Agriculture

1947-49: Assistant Lecturer, London School of Economics

1949-92: Professor of Economics, Princeton University

1992-current: Senior Research Economist and Professor of Economics Emeritus,
Princeton University1971-current: Professor of Economics and Director, C.V. Starr Center for Applied
Economics, New York University**AWARDS & HONORS:**

1953 Fellow, Econometric Society

1957-58 Guggenheim Fellow

1965 Honorary LL.D, Rider College (Trustee Emeritus)

1965-66 Ford Faculty Fellowship

1968 Joseph Douglas Green '95 Professor of Economics, Princeton University

1970 Honorary Fellow, London School of Economics

1971 Member, American Academy of Arts and Sciences

1971 Honorary Doctorate, Stockholm School of Economics

1973 Honorary Doctor of Humane Letters, Knox College

1973 Honorary Doctorate, University of Basel

1975 John R. Commons Award, Omicron Delta Epsilon

1975 Townsend Harris Medal, Alumni Association of the City College of New York

1977 Member, American Philosophical Society

1982 Distinguished Fellow, American Economic Association

1984 Distinguished Member, Economic Association of Puerto Rico

1986 Winner, Assoc. of American Publishers Award for Best Book in Business,
Management and Economics, *Superfairness: Applications and Theory*

1987 Recipient, Frank E. Seidman Distinguished Award in Political Economy

1987 Member, National Academy of Sciences

1989 Winner, Assoc. of Am. Publishers Annual Awards for Excellence in Publishing,
Honorable Mention in Social Sciences, *Productivity and American Leadership:
The Long View*1992 Recipient, First Senior Scholar in the Arts and Sciences Award, New York
University

1995 Honorary Degree, University of Limburg, Maastricht, Holland

1996 Honorary Professorship, University of Belgrano, Buenos Aires, Argentina

PROFESSIONAL ACTIVITIES:

Member, Advisory Board, Insurance Information Institute Press

Chairman, Overseers' Committee to Visit Dept. of Economics, Harvard University

Member, Advisory Board, Journal of Economic Perspectives

Member, Editorial Board, Journal of Cultural Economics

Principal Investigator, Students at Risk Comm., Inst. for Education
and Social Policy

Member, Advisory Committee, World Resources Institute (founding member)

Member, Editorial Advisory Board, *Supreme Court Economic Review*

Member, Board of Trustees, National Council on Economic Education

Member, Advisory Committee, Center for Entrepreneurial Studies, Graduate

School of Business Administration, New York University
 Member, Board of Directors, Theater Development Fund
 Member, National Science Foundation review panel for Science and Technology Research Centers
 Member, Advisory Board, Fishman-Davidson Center for the Study of the Service Sector, Wharton School, University of Pennsylvania
 Correspondent, Committee on Human Rights, National Academy of Sciences
 Member, Committee on the National Institute for the Environment, National Academy of Sciences
 Member, Board of Consultants, *Economia, Revista Quadrimestral* (Portugal)
 Past President, American Economic Association (1981), Association of Environmental and Resource Economists (1979), Eastern Economic Association (1978-79), Atlantic Economic Society (1985)
 Past Chairman and Member, Economic Policy Council, State of New Jersey (1967-75)
 Past Vice President, American Association of University Professors
 Various times on Boards of Editors for *American Economic Review*, *Kyklos*, *Journal of Economic Literature*, *Management Science*, *Economic Notes* (Italy), *Journal of Economic Education*, *Impresa e Concorrenza* (Italy), *THESIS: Theory and History of Economic and Social Institutions and Structures* (USSR), *Feminist Economics*
 Frequent consultant to government and industry, in U.S. and many other countries.

BOOKS PUBLISHED:

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Business Behavior, Value and Growth, 1959, 1966
Economic Theory and Operations Analysis, 1961, 1965, 1972, 1976
The Stock Market and Economic Efficiency, 1965
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Transmission Pricing and Stranded Costs in the Electric Power Industry (with J. G. Sidak), 1995.
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